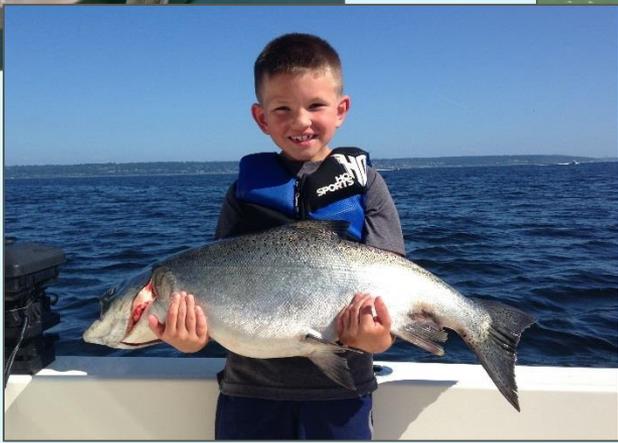




Puget Sound Recreational Salmon and Marine Fish Enhancement Program





Agenda

- Background
- Goals, Strategies and Objectives
 - Performance Measures - update
- Next Steps

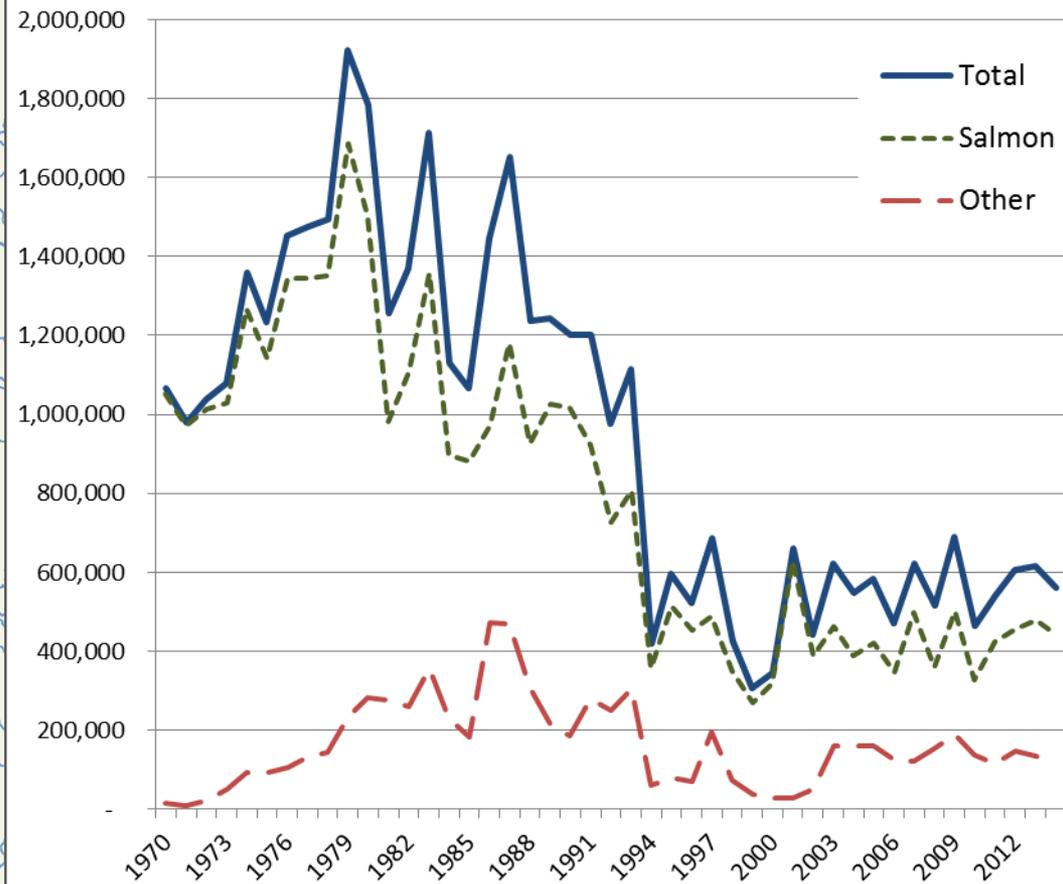




Background



Historical Puget Sound Angling Trips (days)





Background

Puget Sound Recreational Salmon and Marine Fish Enhancement Program (PSRFE; RCW 77.105.005)

- Improve recreational fishing opportunities and increase the economic benefits.
 - Unique recreational experience (e.g. winter salmon fishery).
 - Number of angler trips is the measure of fishing opportunity.
- Legislation occurred in 1993, 2003 and 2011.
 - Oversight Committee created.
 - Focus on performance-based goals.
 - Evaluate (cost) effectiveness of the program.
 - Report annually.



Goals, Strategies and Objectives

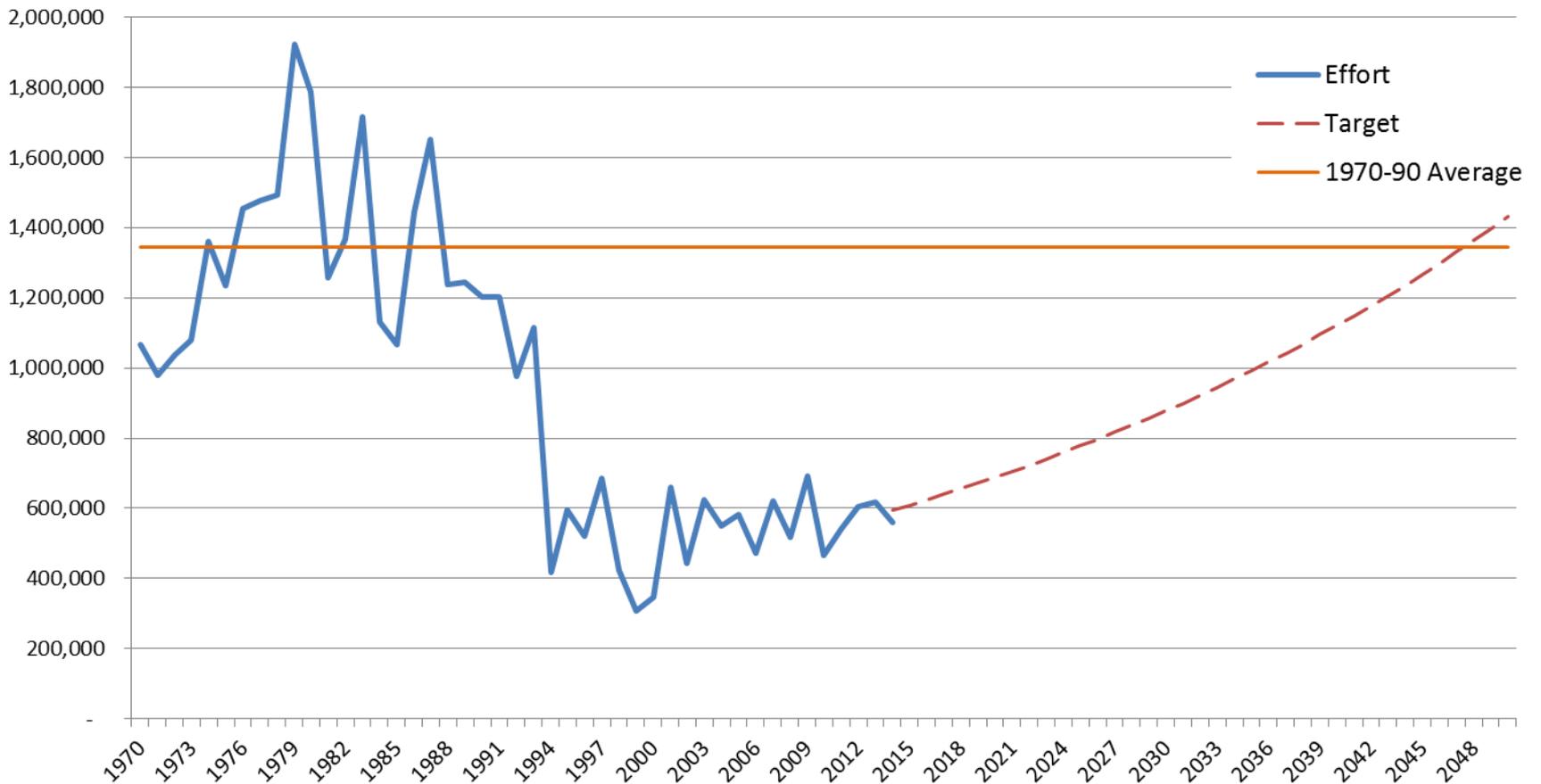
Goals and Objectives adopted in Feb 2013

- “The purpose of the PSRFE is to conserve, enhance, and promote recreational fisheries within Puget Sound and Lake Washington.”
- Program Goal:
 - Improve recreational fishing opportunities.
 - Increase the economic benefits.
- Outcome Performance Measure:
 - Increase angler trips by 5⁰% per biennium.



Goals, Strategies and Objectives

Puget Sound Angling Trips (days) and PSRFE Target





Budget

\$10 license contribution from intent to fish Puget Sound Marine Areas and Lake Washington.

Activity	2016-17 Annual Budget
Hatchery Production	\$991,357
Fish Health Monitoring and Treatment	\$44,311
Lake Washington Sockeye Locks Counts	\$10,000
Coded Wire Tagging	\$109,343
Coordinator	\$87,594
Goal Development	\$85,062
Indirect/Overhead	\$159,421
Total	\$1,487,086



Oversight Committee Members

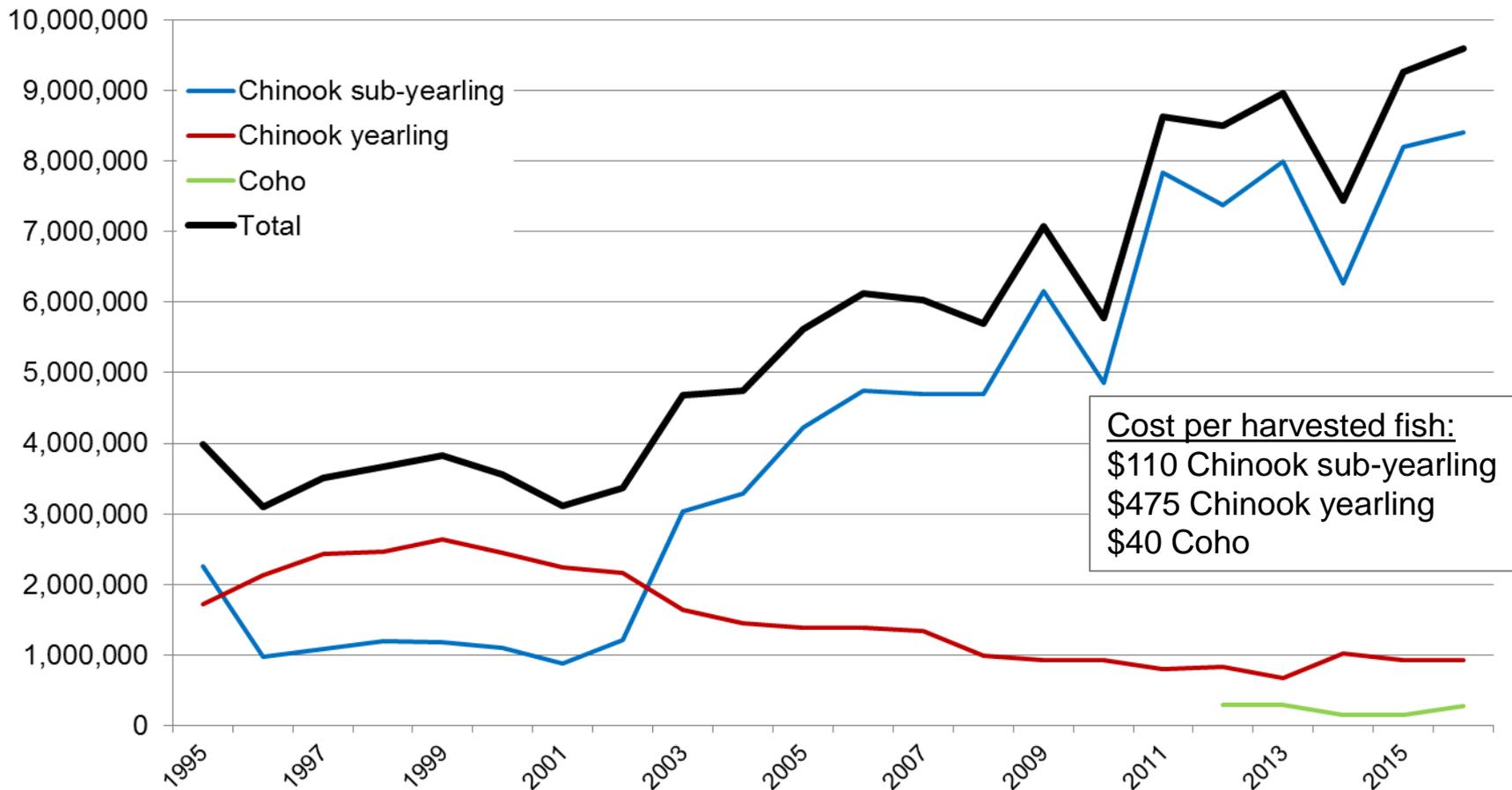
Subcommittees: Hatchery Evaluation, Legislative, Alternative Funding

Dave Knutzen, Olympia - Chair	David Puki, Seattle
Erik Anderson, Seattle	Norm Reinhardt, Port Orchard
Steve Chamberlin, Oak Harbor	Brett Rosson, Anacortes
Don Freeman, Olympia	Michael Rian, Seattle
Mike Gilchrist, Federal Way	Art Tachell, Tacoma
James Malcolm, Mt. Vernon	Gregg Williams, Edmonds
Troy McKelvey, Port Townsend	



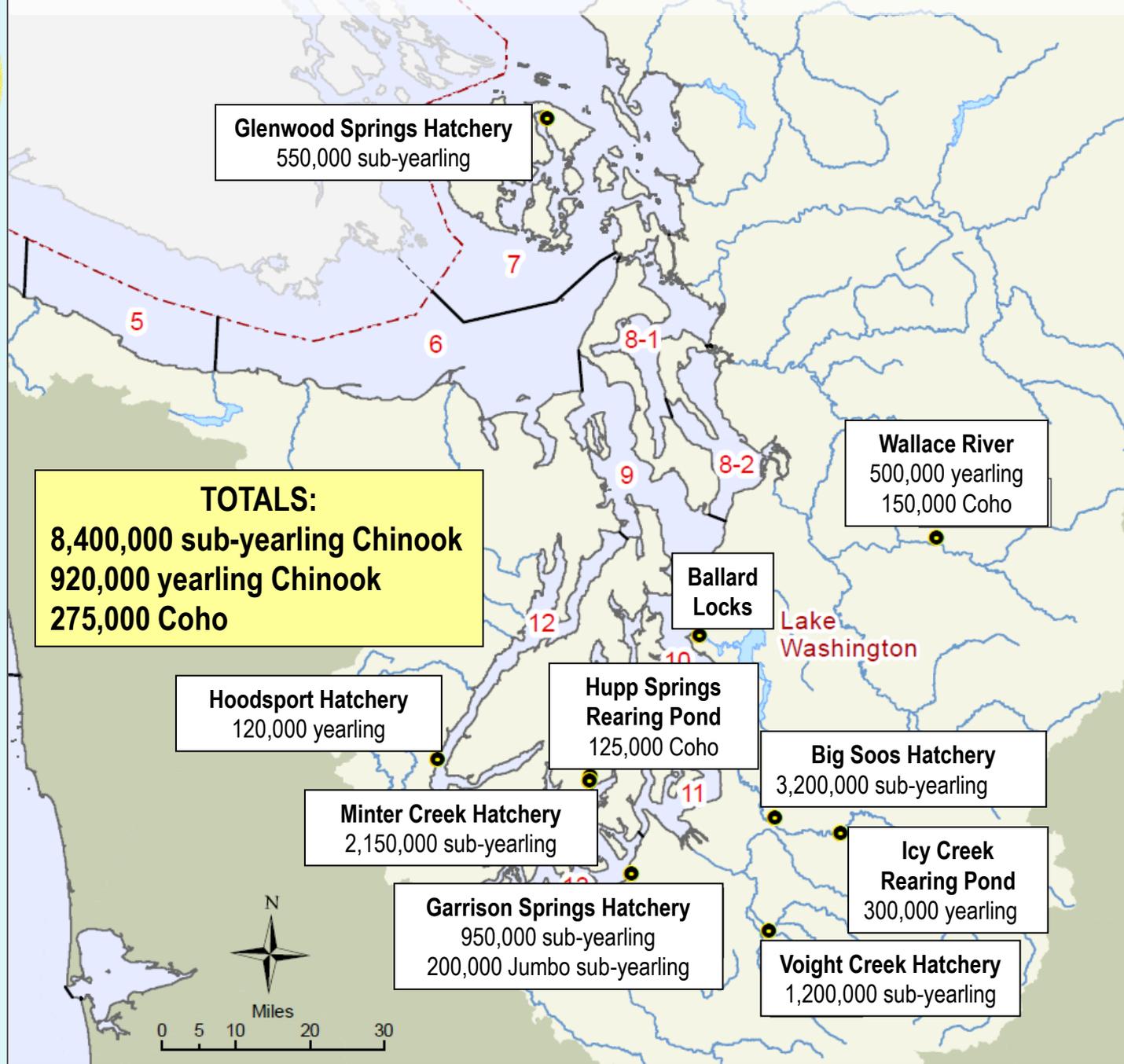
Production Goals

Hatchery salmon produced with PSRE Funding





PSRFE Funded Facilities





4 Key Strategies

- Increase effectiveness of hatcheries.
- Improve marketing and remove obstacles.
- Improve bottomfish fisheries.
- Stabilize and enhance resources.

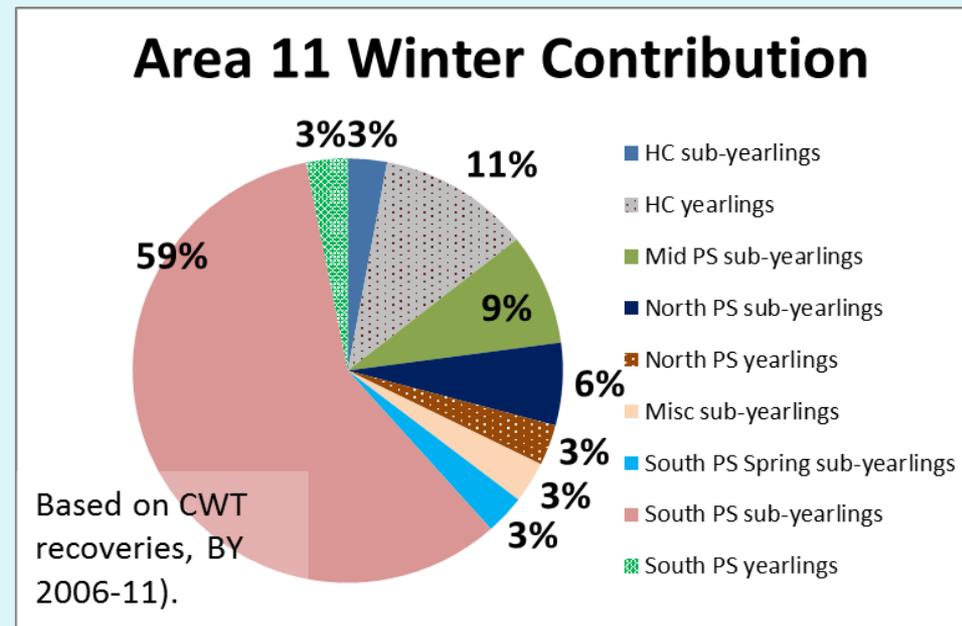




Increase Effectiveness of Hatcheries

Objectives

- Review Chinook production programs to increase the contribution rate.
- Minimize the cost/fish of hatchery salmon caught in recreational fisheries.
- Evaluate other salmon species.
- Increase the survival of Lake Washington Sockeye.





Increase Effectiveness of Hatcheries

Other species (Coho) hatchery evaluation

- Draft report completed in 2014.
- Calculate and summarize survival rates, contribution rates, and cost/fish.
- Recommendations developed to diversify and improve contribution.

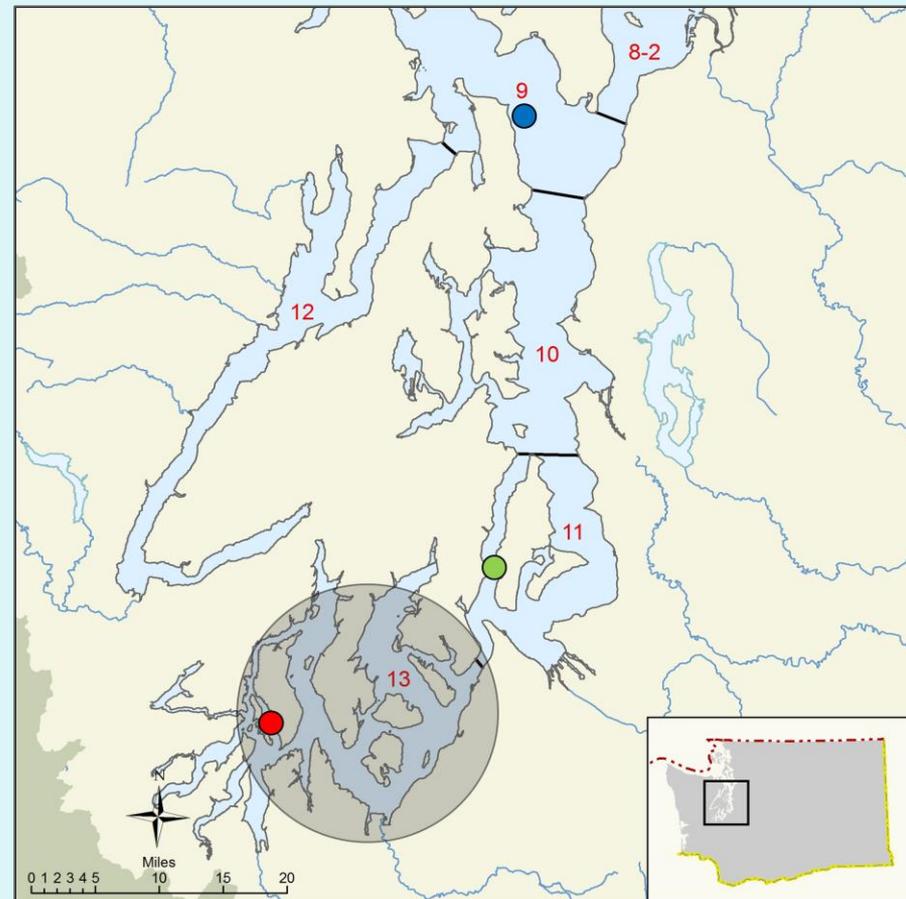




Increase Effectiveness of Hatcheries: Innovative Ideas

South Sound Coho Barging Study

- PSRFE and Squaxin Island Tribal collaborative study.
- Compare survival of barged Coho from Squaxin Island Net Pen past known mortality hotspots.
- Fish released from three primary release sites (2016-18):
 - Control group at the net pens in deep South Sound,
 - Past the Narrows, and
 - Point-no-Point.





Improve marketing and remove obstacles

Objectives

- Increase awareness of opportunities supported by PSRFE (10% increase in awareness per biennium).
- Develop marketing tools to encourage participation and educate new anglers.
- Promote fisheries on healthy stocks that are currently underutilized (e.g. Chum).



Improve marketing and remove obstacles

Survey – Public knowledge of Program

- Online non-random survey – January-March 2016
 - Incentive – rod, reel and net give-away
- Metrics: geographic region, funding, projects, species
 - 2014 baseline: 30% average awareness
 - 1,893 responses
 - 2016: 35% average awareness
 - 1,786 responses



Improve marketing and remove obstacles

Progress Made - New Tools, Outreach



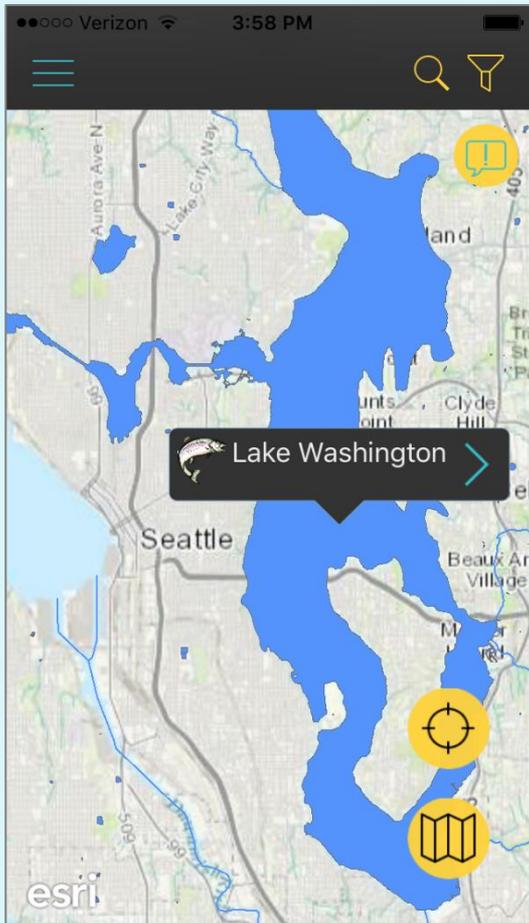
Seattle Boat and Puyallup Sportsman shows



JBLM orientation/seminars

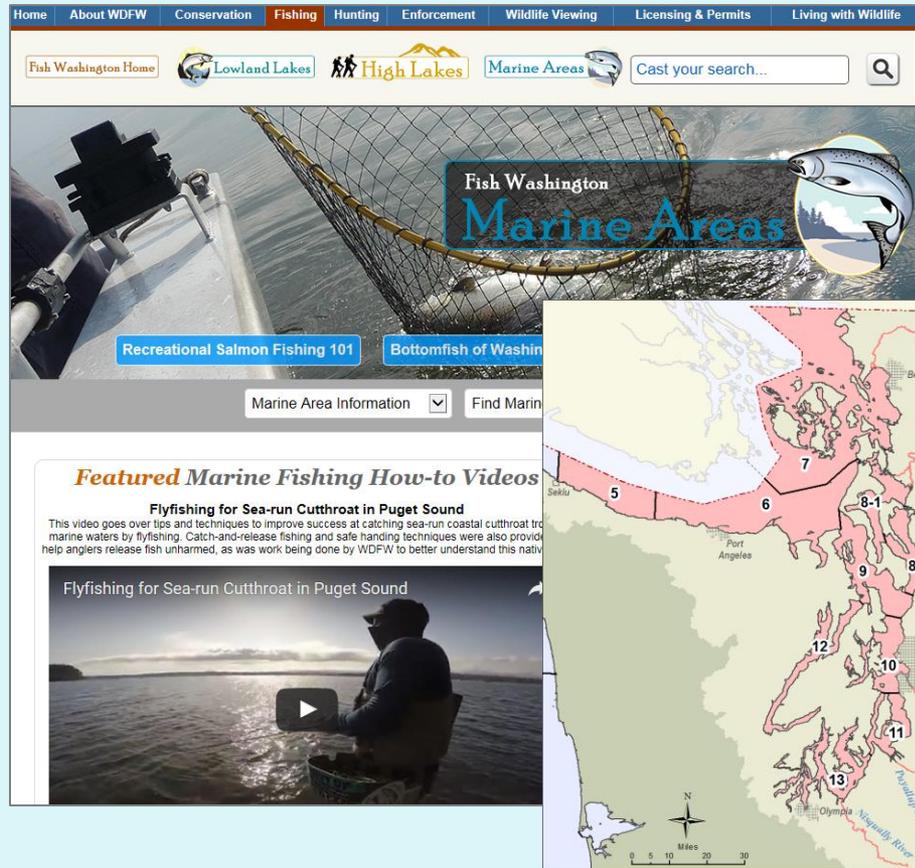


Improve marketing and remove obstacles



Fishing Regulation App

Washington Department of Fish and Wildlife;
Information subject to changes and amendments over time



Fish Washington, Fish Pink

Commission Presentation November 4-5, 2016



Improve marketing and remove obstacles

Progress Made - New Tools, Outreach & Promote underutilized fisheries

Videos: Spiny Dogfish, introduction to Pink Salmon fishing, sea-run Cutthroat, flounder/sole (in progress),

Planned videos: South Sound Coho barging study, rockfish conservation





Improve marketing and remove obstacles

Progress Made - Promote underutilized fisheries on healthy stocks

- Sea-run Coastal Cutthroat Trout
 - Video and JBLM seminars with safe handling techniques and how-to information for catch and release fishery.
 - Coastal Cutthroat Coalition partner.
 - Funding for genetic analysis of South Sound populations.





Improve recreational bottomfish fisheries

Objectives

- Support research to evaluate risks/uncertainties of:
 - Culturing and releasing bottomfish.
 - Deploying artificial habitats.
- Use outreach and education to decrease mortality on rockfish.



Rockfish Species of Concern

Canary
3 orange stripes across head. Lateral line in clear gray zone & orange mottling.

Yelloweye
Brilliant yellow eye & raspy ridge above eye. Fins usually have black coloration.

Bocaccio
Lower jaw greatly projecting & elongated body.

Vermilion
Reddish & mottled with gray.

Accurately Identify and Report the Rockfish You Catch and Release.

Rockfish can be challenging to identify; anglers are encouraged to learn key features and use picture references to aid identification.

Accurate identification is crucial. Data from recreational anglers is critical to scientific evaluations that determine population health.

To support rockfish conservation and science, it is important anglers report all rockfish caught and released to WDFW port samplers.

Also, beginning in 2013, port samplers in some areas will be asking anglers if they used a descending device to release yelloweye or canary rockfish.

Protect Washington's Rockfish January 2013

Washington Department of Fish and Wildlife
1111 Washington St. SE
Olympia, Washington
98501-1091

Questions?
Email: fishngp@dflw.wa.gov
Phone: 360-902-2700

PROTECT WASHINGTON'S ROCKFISH

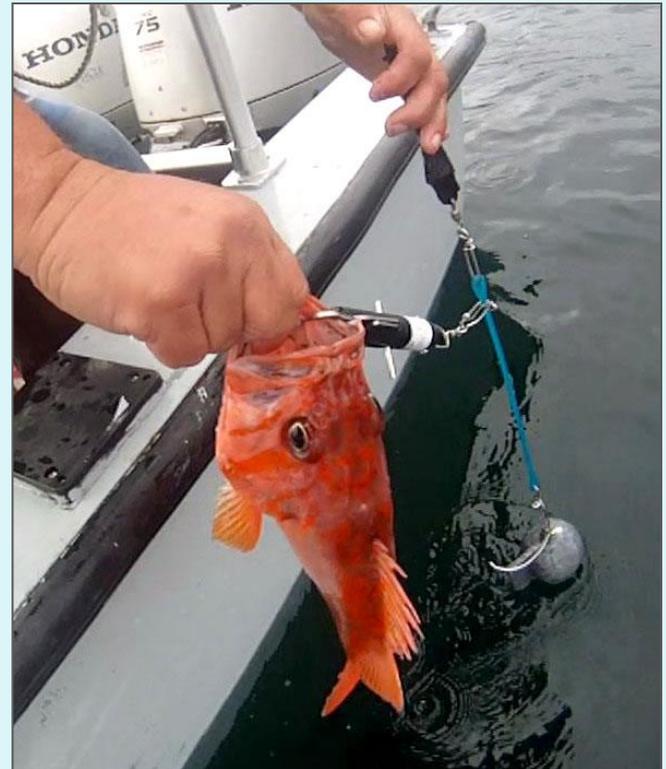
- Avoid prohibited rockfish species
- Release rockfish at depth
- Accurately identify & report your rockfish catch



Improve recreational bottomfish fisheries

Descending Devices

- PSA and WDFW have distributed +2600 units since 2011 to anglers.
 - Several 100 to charter captains.
- May-September sampling schedule:
 - 2013 baseline: 5.9% use when releasing rockfish.
 - 2016: 7.1%.





Stabilize and Enhance Resources

Objectives

- Increase the number of licensed anglers that fish in Puget Sound and Lake Washington.
- License fees and contribution rate of enhancement funds are adjusted regularly to reflect the cost of living.
- Pursue alternative funding sources.



Stabilize and Enhance Resources

Licenses Sold at JBLM

Percent change relative to 2010-13 average, for even-year or odd-year license sales.

License Type	2014	2015
Freshwater	+26%	+130%
Combination	+44%	+16%
Saltwater	+1%	+65%
Temporary	+14%	+354%
Miscellaneous	+18%	+2%



Next Steps – Performance Measures

Effectiveness of hatcheries

- Update and use evaluation report (annually).
 - South Sound Coho barging study (2017-2018).
- Further identify and develop alternative Lake Washington Sockeye rearing strategies (on-going).

Improve marketing and remove obstacles

- 10% increase in awareness (2018).
- Further identify underutilized fish stocks (2017).
- Develop new tools to increase awareness of opportunities (2017).



Next Steps – Performance Measures

Improve recreational bottomfish fisheries

- Improve angler identification and use of descender tools on rockfish species by 50% (2017).
- Decrease angler encounters of rockfish by 10% (2017).
- Lingcod hatchery feasibility report (in progress).

Stabilize and enhance resources invested

- Wild Future initiative support.
- Leverage 20% of funds through other sources (2017).
- Ten-year rolling average of licensed anglers trends upwards.



Conclusions

Puget Sound recreational fishing value

- Economic impact to the State: \$36 million.
 - Salmon: \$28 million
 - 430,000 trips
 - Other (e.g. bottomfish, sea-run Cutthroat): \$9 million
 - 131,000 trips
- 35,000 Chinook catch in Puget Sound annually.
 - 29% sport Chinook fishery catch in Puget Sound from PSRFE program.

Questions?

